Refine Search

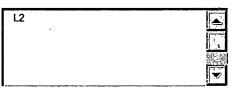
Search Results -

Terms Documents
L1 and lsgg 1

Database:

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0.4

Recall Text

Search History

DATE: Tuesday, October 24, 2006 Purge Queries Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> Count	Name result set
DB=USPT; PLUR=YES; OP=AND			
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
. <u>L1</u>	haemophilus	4105	<u>L1</u>

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Set Name	Query	Hit Count	Set Name
side by side			result set
DB = USI	PT; PLUR=YES	S; OP=AND	
<u>L3</u>	L1 and lsg	12	<u>L3</u>
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
<u>L1</u>	haemophilus	4105	<u>L1</u>

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set
DB=USPT; PLUR=	YES; OP=AND		
<u>L6</u>	L4 and biofilm adj gene?	0	<u>L6</u>
. <u>L5</u>	L4 and biofilm adj gene?	0	<u>L5</u>
<u>L4</u>	11 and biofilm	66	<u>L4</u>
<u>L3</u>	L1 and lsg	12	<u>L3</u>
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
<u>L1</u>	haemophilus	4105	<u>L1</u>
<i>T=USPT; UR=YES; OP=AND</i> L4 and biofilm			

DBPLU

L6 adj gene? <u>L6</u> L5 L4 and biofilm adj gene? <u>L5</u> <u>L4</u> 11 and biofilm 66 <u>L4</u> L3 L1 and lsg <u>L3</u> 12 <u>L2</u> L2 L1 and lsgg 1 L1 haemophilus 4105 <u>L1</u>

END OF SEARCH HISTORY

L2: Entry 1 of 1

File: USPT

Jun 1, 2004

US-PAT-NO: 6743607

DOCUMENT-IDENTIFIER: US 6743607 B2

** See image for <u>Certificate of Correction</u> **

TITLE: Production of complex carbohydrates

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Apicella; Michael A. Solon IA

Gibson; Bradford W. Berkeley CA

Phillips; Nancy J. Oakland CA

US-CL-CURRENT: 435/101; 424/249.1, 424/256.1, 424/257.1, 424/258.1, 435/252.3, 435/252.33

CLAIMS:

What is claimed is:

- 1. A transformed Salmonella bacterium for use as a chimeric carbohydrate production cell, wherein the bacterium comprises: (a) a lipooligosaccharide (LOS) or lipopolysaccharide (LPS) comprising a core region containing a terminal heptose; (b) a DNA sequence comprising an rfe gene; and (c) an isolated DNA sequence comprising a lipooligosaccharide-synthesis gene G (<u>lsgG</u>) from Haemophilus influenzae, wherein <u>lsgG</u> encodes <u>LsgG</u>, and wherein the rfe is regulated by <u>LsgG</u> such that a H. influenzae-specific Los is synthesized by the addition of an acceptor molecule to the terminal heptose.
- 2. The bacterium of claim 1, which is Salmonella minnesota.
- 3. The bacterium claim 1, which has terminal heptose on a kdo core.
- 4. The bacterium of claim 1, wherein the acceptor molecule is N-acetyl glucosamine.
- 5. The bacterium of claim 1, wherein the LOS or LPS is an <u>Haemophilus</u> influenzae, Neisseria spp. or Salmonella spp.-specific LOS or LPS.
- 6. A process for producing a complex carbohydrate, which comprises the steps of: (a) inoculating production cells which are bacteria according to claim 1 into a culture medium capable of supporting the growth of said production cells; (b) allowing the growth of said production cells; and (c) recovering the complex carbohydrate from the culture medium.
- 7. The process of claim 6, which comprises the steps of extracting chimeric lipoligosaccharide or lipopolysaccharide from the cultured cells, hydrolysing the extracted lipoologosaccharide or lipopolysaccharide, and recovering the resulting oliposaccharide or polysaccharide.

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